

PS Claim 12: Fig 1: 49pp: English.

XX This sequence represents a cryptic peptide of the chain 1 sequence of the
 CC major cat allergen Fel d1. This sequence can be used in the method of the
 CC invention. The method of the invention is for determining if a peptide of
 CC a protein is a cryptic peptide and comprises: (a) exposing T cells to
 CC the peptide in a primary challenge; and measuring the reactivity of the
 CC T-cells to the peptide; (b) exposing pre-challenged T-cells, obtained by
 CC exposure to the protein, to the peptide in a secondary challenge; and
 CC measuring the reactivity of the pre-challenged T-cells to the peptide;
 CC and (c) determining the peptide to be a cryptic peptide if T cell
 CC reactivity is observed in the secondary, but not in the primary,
 CC challenge. Peptides identified as being cryptic can be used to diagnose
 CC or treat an allergic allergy, e.g. asthma. They can also be used in to
 CC screen compounds for therapeutic activity, e.g. asthma therapeutic
 CC activity.

XX Sequence 16 AA:

Query Match 100.0%; Score 77; E: 18; Length 16;
 Best Local Similarity 100.0%; Pred. No. 5,4e-08;
 Matches 16; Conservative 9; Mismatches 0; Indels 0; Gaps 0.

QY 1 EGVAVGYKALLVVLDA 16
 1111111111111111
 Db 1 eGVAVGYKALLVVLDA 16

RESULT 2

AAV25525 standard; peptide: 16 AA.

XX AAV25525:
 XX 30-SEP-1999 (first entry)

DE Human MHC Class II desensitizing peptide FCIP2.

XX Major histocompatibility complex, class II, desensitizing human
 KW allergen: grass; tree; weed; pollen; fungi; mould; food; insect; animal;
 KW chitinid; spider; mite; housefly; fruit fly; sheep; blue fly; housefly;
 KW screw worm; fly; grain weevil; silkworm; bee; moth; house; cat; dog;
 KW cockroach; beetle; dog; horse; cow; pig; sheep; rabbit; rat; guinea pig;
 KW mite; rabbit; vaccine; treatment; prevention; hypersensitivity.

XX Synthesis:

XX W0994826-A1.

XX 15-JUL-1999.

XX 11-JAN 1999; 99WO-GR00080.

XX 21-SEP-1998; 98GB-0020474.

XX 09-JAN-1998; 98GB-0000445.

XX (IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD.

XX Kay AB, Larche M;

XX WPI; 1999-458255/38.

XX desensitizing patients to polypeptide allergens

XX Claim 6: Figure 9: 117pp: English.

XX This invention describes a novel method of desensitizing a patient to a
 CC polypeptide allergen and comprises administering to the patient a peptide
 CC derived from the allergen where restriction to a MHC Class II molecule
 CC possessed by the patient can be demonstrated for the peptide and the
 CC peptide is able to induce a late phase response in an individual who
 CC possesses the MHC Class II molecule. The methods can be used for

CC desensitizing patients to allergens present in e.g. grass, tree and weed
 CC (including ragweed) pollens, fungi and moulds, foods, stinging insects,
 CC the chitinidae (non-biting mites), spiders and mites, housefly, fruit
 CC fly, screw worm, fly, grain weevil, silkworm, bee, moth, house, cat, dog,
 CC cockroach, beetle, rat, guinea pig, mite or rabbit. They can also be used to
 CC screen compounds for therapeutic activity, e.g. asthma therapeutic
 CC activity.

XX Sequence 16 AA:

Query Match 100.0%; Score 77; E: 20; Length 16;
 Best Local Similarity 100.0%; Pred. No. 5,4e-08;
 Matches 16; Conservative 9; Mismatches 0; Indels 0; Gaps 0.

QY 1 EGVAVGYKALLVVLDA 16
 1111111111111111
 Db 1 eGVAVGYKALLVVLDA 16

RESULT 3

AAW40979 standard; peptide: 14 AA.

XX AAW40979:
 XX 09-APR-1998 (first entry)

DE Cryptic peptide of major cat allergen Fel d1.

XX Major cat allergen Fel d1; chain 1; cryptic peptide; T-cell; asthma;
 KW allergic therapy.

XX Fells SP.

XX W09735193 A1.

XX 25-SEP-1997.

XX 20-MAR-1997; 97WO-GR00783.

XX 24-APR-1996; 96GB-0008430.

XX 21-MAR-1996; 96GB-0005404.

XX (IMCO-) IMPERIAL COLLEGE SCI TECHNOLOGY & MED.

XX Kay AB, Larche M;

XX WPI; 1997-480354/44.

XX Determining if peptide of protein is cryptic peptide - by comparing
 CC its reactivity with pre-challenged and non-pre-challenged T cells,
 CC useful to diagnose or treat allergic condition, e.g. asthma

XX Claim 12: Page 30: 49pp: English.

XX This sequence represents a cryptic peptide of the major cat allergen
 CC Fel d1. This sequence can be used in the method of the invention. The
 CC method of the invention is for determining if a peptide of a protein is a
 CC cryptic peptide and comprises: (a) exposing T cells to the peptide in a
 CC primary challenge; and measuring the reactivity of the T-cells to the
 CC peptide; (b) exposing pre-challenged T-cells, obtained by exposure to the
 CC protein, to the peptide in a secondary challenge; and measuring the
 CC reactivity of the pre-challenged T-cells to the peptide; and
 CC (c) determining the peptide to be a cryptic peptide if T cell reactivity
 CC is observed in the secondary, but not in the primary challenge. Peptides
 CC identified as being cryptic can be used to diagnose or treat an allergic
 CC allergy, e.g. asthma. They can also be used in to screen compounds for

11 The query is active; e.g., asthma therapy; and finally,
 XX Sequence 14 AA:

Query Match: 87.0% Score 67; DB 14; Length 14;
 Best Local Similarity: 100.0%; Prod. No. 2,500,000;
 Matches 14; Conservative 0; Mismatches 0; Days 0;

12 2 VAAKAAVWLN 14
 13 1 VAAKAAVWLN 14

RESULT 4

AAW40979 standard; peptide: 14 AA.

AAW40979:

09 APR 1998 (first entry)

09 APR 1998 (first entry)

Major cat allergen; pol d1; chain 1; cystic peptide; 100.0% asthma;

allergy; therapy.

100.0% asthma;

W09/519-519 A1.

25 SEP 1997.

20 MAR 1997 97W 090783.

24 APR 1998 96GB 000453.

21 MAR 1998 96GB 000504.

(UNIT) IMMEDIATE SET IDENTIFICATION & MED.

Key AB: Lactate M.

W09/519-519 A1.

11 Determined if peptide of protein is cystic peptide - by comparison

its reactivity with pre-challenged and non-pre-challenged cells.

used to diagnose or treat allergic condition; e.g., asthma.

Chain 1; 14 AA; 499; 499; 499; 499.

11 This sequence represents a cystic peptide of the major cat allergen

pol d1. This sequence can be used in the method of the invention. The

method of the invention is for determining if a peptide of a protein is a

cystic peptide, and comprises: (a) exposing cells to the peptide in a

primary challenge, and measuring the reactivity of the cells to the

peptide; (b) exposing pre-challenged cells, obtained by exposure to the

peptide, to the peptide in a secondary challenge, and measuring the

reactivity of the pre-challenged cells to the peptide; and

(c) determining the peptide to be a cystic peptide if its reactivity

is observed in the secondary challenge, but not in the primary challenge.

11 This method is for determining if a peptide of a protein is a

cystic peptide, and comprises: (a) exposing cells to the peptide in a

primary challenge, and measuring the reactivity of the cells to the

DB 1 VAAKAAVWLN 14

RESULT 5

AAW40981 standard; peptide: 14 AA.

AAW40981:

09 APR 1998 (first entry)

09 APR 1998 (first entry)

Major cat allergen; pol d1; chain 1; cystic peptide; 100.0% asthma;

allergy; therapy.

100.0% asthma;

W09/519-519 A1.

25 SEP 1997.

20 MAR 1997 97W 090783.

24 APR 1998 96GB 000453.

21 MAR 1998 96GB 000504.

(UNIT) IMMEDIATE SET IDENTIFICATION & MED.

Key AB: Lactate M.

W09/519-519 A1.

11 Determined if peptide of protein is cystic peptide - by comparison

its reactivity with pre-challenged and non-pre-challenged cells.

used to diagnose or treat allergic condition; e.g., asthma.

Chain 1; 14 AA; 499; 499; 499; 499.

11 This sequence represents a cystic peptide of the major cat allergen

pol d1. This sequence can be used in the method of the invention. The

method of the invention is for determining if a peptide of a protein is a

cystic peptide, and comprises: (a) exposing cells to the peptide in a

primary challenge, and measuring the reactivity of the cells to the

peptide; (b) exposing pre-challenged cells, obtained by exposure to the

peptide, to the peptide in a secondary challenge, and measuring the

reactivity of the pre-challenged cells to the peptide; and

(c) determining the peptide to be a cystic peptide if its reactivity

is observed in the secondary challenge, but not in the primary challenge.

11 This method is for determining if a peptide of a protein is a

cystic peptide, and comprises: (a) exposing cells to the peptide in a

primary challenge, and measuring the reactivity of the cells to the

peptide; (b) exposing pre-challenged cells, obtained by exposure to the

peptide, to the peptide in a secondary challenge, and measuring the

reactivity of the pre-challenged cells to the peptide; and

(c) determining the peptide to be a cystic peptide if its reactivity

is observed in the secondary challenge, but not in the primary challenge.

peptide of protein is cryptic peptide - by comparing its reactivity with pre-challenged and non pre-challenged T cells.

used to diagnose of treat atopic condition, e.g. asthma.

claim 2: Page 41: 49ff: English.

This sequence represents a cryptic peptide of the major cat allergen Fel d1. This sequence can be used in the method of the invention. The method of the invention is for determining if a peptide of a protein is a cryptic peptide, and comprises: (a) exposing T-cells to the peptide in a primary challenge, and measuring the reactivity of the T-cells to the peptide; (b) exposing pre-challenged T-cells, obtained by exposure to the reactivity of the pre-challenged T-cells to the peptide; and (c) determining the peptide to be a cryptic peptide if T-cell reactivity is observed in the secondary, but not in the primary challenge. Peptides identified as being cryptic can be used to diagnose or treat an atopic allergy, e.g. asthma. They can also be used in to screen compounds for therapeutic activity, e.g. asthma therapeutics activity.

Sequence 14 AA:

Query Matrix 76.6% Score 59; DB 15; Length 14
Best Local Similarity 100.0% Ident No 0.00133
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0

07 5 QAKALFVLENA 16
10 1 PPKLPLPLPL 12

RESULT:

AAW40975 standard: peptide: 14 AA.

XX AAW40975:

XX AAW40975:

XX 09-APR-1997 (first entry)

DE Cryptic peptide of major cat allergen Fel d1

XX Major cat allergen Fel d1: chain 1: cryptic peptide (c)11: asthma;

XX atopic allergy: therapy.

XX Fc11s sp.

XX W 97-01-19 AA:

XX 25-SEP-1997.

XX 2 MAR-1997 97W-380784.

XX 24 APR-1997 96B-006473.

XX 21 MAR-1997 96B-000504.

XX (UNCL) IMMEDIATE RELEASE SET IDENTIFY A MBL.

XX Key Ab: Carcino M.

XX WPI: 1997-480-54/14.

XX This sequence represents a cryptic peptide of the major cat allergen Fel d1. This sequence can be used in the method of the invention. The method of the invention is for determining if a peptide of a protein is a cryptic peptide, and comprises: (a) exposing T-cells to the peptide in a primary challenge, and measuring the reactivity of the T-cells to the

peptide (b) exposing pre-challenged T-cells to the peptide in a secondary challenge, and measuring the reactivity of the T-cells to the peptide; (c) determining the peptide to be a cryptic peptide if T-cell reactivity is observed in the secondary, but not in the primary challenge. Peptides identified as being cryptic can be used to diagnose or treat an atopic allergy, e.g. asthma. They can also be used in to screen compounds for therapeutic activity, e.g. asthma therapeutics activity.

Sequence 14 AA:

Query Matrix 76.6% Score 59; DB 15; Length 14
Best Local Similarity 100.0% Ident No 0.00133
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0

07 1 EVAAKRYKATV 12
10 4 QPKLPLPLPL 14

RESULT: 10

AAW40975 standard: peptide: 14 AA.

XX AAW40975:

XX AAW40975:

XX 09-APR-1997 (first entry)

DE Cryptic peptide of major cat allergen Fel d1

XX Major cat allergen Fel d1: chain 1: cryptic peptide (c)11: asthma;

XX atopic allergy: therapy.

XX Fc11s sp.

XX W 97-01-19 AA:

XX 25-SEP-1997.

XX 20-MAR-1997 97W-380784.

XX 24 APR-1997 96B-006473.

XX 21-MAR-1997 96B-000504.

XX (UNCL) IMMEDIATE RELEASE SET IDENTIFY A MBL.

XX Key Ab: Carcino M.

XX WPI: 1997-480-54/14.

XX This sequence represents a cryptic peptide of the major cat allergen Fel d1. This sequence can be used in the method of the invention. The method of the invention is for determining if a peptide of a protein is a cryptic peptide, and comprises: (a) exposing T-cells to the peptide in a primary challenge, and measuring the reactivity of the T-cells to the peptide; (b) exposing pre-challenged T-cells, obtained by exposure to the reactivity of the pre-challenged T-cells to the peptide; and (c) determining the peptide to be a cryptic peptide if T-cell reactivity is observed in the secondary, but not in the primary challenge. Peptides identified as being cryptic can be used to diagnose or treat an atopic allergy, e.g. asthma. They can also be used in to screen compounds for therapeutic activity, e.g. asthma therapeutics activity.

Sequence 14 AA:

Query Matrix 76.6% Score 59; DB 15; Length 14
Best Local Similarity 100.0% Ident No 0.00133
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0

07 1 EVAAKRYKATV 12
10 4 QPKLPLPLPL 14

RESULT: 10
AAW40975 standard: peptide: 14 AA.
XX AAW40975:
XX AAW40975:
XX 09-APR-1997 (first entry)
DE Cryptic peptide of major cat allergen Fel d1
XX Major cat allergen Fel d1: chain 1: cryptic peptide (c)11: asthma;
XX atopic allergy: therapy.
XX Fc11s sp.
XX W 97-01-19 AA:
XX 25-SEP-1997.
XX 20-MAR-1997 97W-380784.
XX 24 APR-1997 96B-006473.
XX 21-MAR-1997 96B-000504.
XX (UNCL) IMMEDIATE RELEASE SET IDENTIFY A MBL.
XX Key Ab: Carcino M.
XX WPI: 1997-480-54/14.
XX This sequence represents a cryptic peptide of the major cat allergen Fel d1. This sequence can be used in the method of the invention. The method of the invention is for determining if a peptide of a protein is a cryptic peptide, and comprises: (a) exposing T-cells to the peptide in a primary challenge, and measuring the reactivity of the T-cells to the peptide; (b) exposing pre-challenged T-cells, obtained by exposure to the reactivity of the pre-challenged T-cells to the peptide; and (c) determining the peptide to be a cryptic peptide if T-cell reactivity is observed in the secondary, but not in the primary challenge. Peptides identified as being cryptic can be used to diagnose or treat an atopic allergy, e.g. asthma. They can also be used in to screen compounds for therapeutic activity, e.g. asthma therapeutics activity.

Query Match 70.18; Score 54; DB 18; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EGVAVQTRALPV 11
DB 4 EGVAVQTRALPV 14

RESULT 11

AAW40983
ID AAW40983 standard; peptide: 14 AA.

AC AAW40983;

DT 09 APR 1998 (first entry)

DE Cryptic peptide of major cat allergen fel d1.

KW Major cat allergen; fel d1; chain 1; cryptic peptide; T-cell; asthma;
atopic allergy; therapy.

OS Felis sp.

PN W09735193-AL.

PD 25-SEP-1997.

PE 20-MAR-1997; 97W0-GH00783.

PR 24-APR-1996; 96GB-0008430.

PS 21-MAR-1996; 96GB-0005904.

PS (UNLO) IMPERIAL COLLEGE SCI TECHNOLOGY & MED.

KAY AB, Larche M;

WP1: 1997-480354/44.

Determining if peptide of protein is cryptic peptide - by comparing
its reactivity with pre-challenged and non pre-challenged T cells,
useful to diagnose or treat atopic condition, e.g. asthma

Claim 12; Page 31; 49pp; English.

This sequence represents a cryptic peptide of the major cat allergen
fel d1. This sequence can be used in the method of the invention. The
method of the invention is for determining if a peptide of a protein in a
cryptic peptide, and comprises: (a) exposing T-cells to the peptide in a
primary challenge; and measuring the reactivity of the T-cells to the
peptide; (b) exposing pre-challenged T-cells, obtained by exposure to the
protein, to the peptide in a secondary challenge; and measuring the
reactivity of the pre-challenged T-cells to the peptide; and
(c) determining the peptide to be a cryptic peptide if T-cell reactivity
is observed in the secondary, but not in the primary challenge; peptides
identified as being cryptic can be used to diagnose or treat an atopic
allergy, e.g. asthma. They can also be used in to screen compounds for
therapeutic activity; e.g. asthma therapeutic activity.

Sequence 14 AA;

Query Match 70.18; Score 54; DB 18; Length 14;

Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 YKALPVVLENA 16

DB 1 YKALPVVLENA 11

RESULT 12

AAW40938
ID AAW40938 standard; peptide: 15 AA.

AC AAW40938;

DT 09 APR 1998 (first entry)

DE Cryptic peptide 5 of chain 1 of major cat allergen fel d1.

KW Major cat allergen; Fel d1; chain 1; cryptic peptide; T-cell; asthma;
atopic allergy; therapy.

OS Felis sp.

PN W09735193-AL.

PD 25-SEP-1997.

PE 20-MAR-1997; 97W0-GH00783.

PR 24 APR 1996; 96GB-0008430.
PS 21-MAR-1996; 96GB-0005904.

PS (UNLO) IMPERIAL COLLEGE SCI TECHNOLOGY & MED.

KAY AB, Larche M;

WP1: 1997-480354/44.

Determining if peptide of protein is cryptic peptide - by comparing
its reactivity with pre-challenged and non-pre-challenged T cells,
useful to diagnose or treat atopic condition, e.g. asthma

Claim 12; Fig 1; 49pp; English.

This sequence represents a cryptic peptide of the chain 1 sequence of the
major cat allergen fel d1. This sequence can be used in the method of
the invention. The method of the invention is for determining if a peptide of
a protein is a cryptic peptide, and comprises: (a) exposing T-cells to
the peptide in a primary challenge; and measuring the reactivity of the
T-cells to the peptide; (b) exposing pre-challenged T-cells, obtained by
exposure to the protein, to the peptide in a secondary challenge; and
measuring the reactivity of the pre-challenged T-cells to the peptide;
and (c) determining the peptide to be a cryptic peptide if T-cell
reactivity is observed in the secondary, but not in the primary
challenge. Peptides identified as being cryptic can be used to diagnose
or treat an atopic allergy, e.g. asthma. They can also be used in to
screen compounds for therapeutic activity; e.g. asthma therapeutic
activity.

Sequence 15 AA;

Query Match 70.18; Score 54; DB 18; Length 15;

Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 YKALPVVLENA 16

DB 1 YKALPVVLENA 11

RESULT 13

AAW40974
ID AAW40974 standard; peptide: 14 AA.

AC AAW40974;

DT 09 APR 1998 (first entry)

DE Cryptic peptide of major cat allergen fel d1.

KW Major cat allergen; fel d1; chain 1; cryptic peptide; T-cell; asthma;

XX
ES Claim 12; Page 28; 49pp; English.

XX
CC This sequence represents a cryptic peptide of the major cat allergen
CC for d1. This sequence can be used in the method of the invention. The
CC method of the invention is for determining if a peptide of a protein is a
CC cryptic peptide, and comprises: (a) exposing T-cells to the peptide in a
CC primary challenge, and measuring the reactivity of the T-cells to the
CC peptide; (b) exposing pre-challenged T-cells, obtained by exposure to the
CC protein, to the peptide in a secondary challenge, and measuring the
CC reactivity of the pre-challenged T-cells to the peptide; and
CC (c) determining the peptide to be a cryptic peptide if T-cell reactivity
CC is observed in the secondary, but not in the primary challenge. Peptides
CC identified as being cryptic can be used to diagnose or treat an allergic
CC allergy, e.g. asthma. They can also be used in to screen compounds for
CC therapeutic activity, e.g. asthma therapeutic activity.

XX
SO Sequence 14 AA;

Query Match 55.8%; Score 43; DB 18; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EQVAQYKAL 9
|||||
DB 6 eqvaqykal 14

Search completed: July 17, 2002, 11:15:17
Job time: 237 sec

PS Claim 12: Page 24: 49pp: English.

XX This sequence represents a cryptic peptide of the major cat allergen
XX Fel d1. This sequence can be used in the method of the invention. The
XX method of the invention is for determining if a peptide of a protein is a
XX cryptic peptide, and comprises: (a) exposing T cells to the peptide in a
XX primary, non-sensitized, non-challenged T cell assay for the
XX peptide; (b) exposing pre-challenged T cells, activated by cat dander, to
XX the peptide; (c) determining the reactivity of the T cells to the peptide; and
XX (c) determining the peptide to be a cryptic peptide if T cell reactivity
XX is observed in the secondary, but not in the primary challenge. Peptides
XX identified as being cryptic can be used to diagnose or treat an allergic
XX allergy, e.g., asthma. They can also be used in to screen compounds for
XX therapeutic activity, e.g., asthma therapeutic activity.

XX Sequence 17 AA:

SY Sequence 17 AA:

Query Match: 100.0%, Score 89, E-18, Length 17;
Best local Similarity: 100.0%; Pred. No. 4,5e-08;
Matches: 17, Conservative: 0, Mismatches: 0, Indels: 0, Gaps: 0.

QY 1 LFLTGPDEYVEQVAVY 17
IIIIIIIIIIIIIIIIII
DB 1 LFLTGPDEYVEQVAVY 17

RESULT 2

AAV25524
ID AAV25524 standard: peptide: 17 AA.

AV AAV25524:

DE 30-SEP-1999 (first entry)

XX Human MHC class II desensitizing peptide FCPTL.

XX Major histocompatibility complex, class II, desensitizing, human,
XX allotype, grass, tree, weed, pollen, fungi, mold, food, insect, animal;
XX chromidase, spider, milky leucoderm, fruit fly, sheep blow fly, honeybee,
XX grass, worm, fly, fruit, several silkworm, bee, moth, larvae, molting, cat;
XX cockroach, beetle, dog, horse, cow, fish, sheep, rabbit, rat, guinea pig,
XX mink, pig, cat, dog, treatment, prevention, hypersensitivity.

XX Synthetic.

IN WO9934826-A1.

PD 15-JUL-1999.

XX 11-JAN-1999: 99W0-G800080.

XX 21-SEP-1999: 96GB-0020474.

PK 09-JAN-1998: 96GB-0000445.

XX (1999) J. IMMUNOL. COLLEGE SCI. TECHNOLOGY & MED.

XX Kay AB, Jarcho M.

DE WPI, 1997 480454/44.

PT Desensitizing patients to polypeptide allergens

AA Claim 6: Figure 9: 117pp: English.

XX This invention describes a novel method of desensitizing a patient to a
XX polypeptide allergen and comprises administering to the patient a peptide
XX derived from the allergen where restriction to a MHC class II molecule
XX possessed by the patient can be demonstrated for the peptide and the
XX peptide is able to induce a late phase response in an individual who
XX possesses the MHC class II molecule. The methods can be used for
XX desensitizing patients to allergens present in cat, grass, tree and weed

CC (including ragweed) pollens, fungi and molds, foods, stinging insects,
CC the chironomidae (non-biting midges), spiders and mites, housefly, fruit
CC fly, sheep blow fly, green worm fly, grain weevil, silkworm, honeybee,
CC non biting midge larvae, bee, moth, larvae, molting, cat, horse, cow, pig,
CC cockroach, beetle, dog, guinea pig, mink or rabbit. They can also be used to
CC produce major histocompatibility complex (MHC) class II response to the Fel d1 chain 1
CC allergen.

XX Sequence 17 AA:

Query Match: 100.0%, Score 89, E-18, Length 17;
Best local Similarity: 100.0%; Pred. No. 4,5e-08;
Matches: 17, Conservative: 0, Mismatches: 0, Indels: 0, Gaps: 0;

QY 1 LFLTGPDEYVEQVAVY 17
IIIIIIIIIIIIIIIIII
DB 1 LFLTGPDEYVEQVAVY 17

RESULT 3

AAW40970
ID AAW40970 standard: peptide: 14 AA.

AV AAW40970:

DE 09-APR-1998 (first entry)

XX Cryptic peptide of major cat allergen Fel d1.

XX Major cat allergen Fel d1, chain 1, cryptic peptide; T cells; asthma;

XX atopic allergy; therapy.

XX Feline sp.

XX WO9735193-A1.

XX 25-SEP-1997.

XX 20-MAR-1997: 97W0-G800783.

XX 24-APR-1996: 96GB-0008430.

XX 21-MAR-1996: 96GB-0005904.

XX (1999) J. IMMUNOL. COLLEGE SCI. TECHNOLOGY & MED.

XX Kay AB, Jarcho M.

XX WPI, 1997 480454/44.

PT Determining if peptide of protein is cryptic peptide - by comparing
XX the reactivity with pre-challenged and non pre-challenged T cells,
XX used to diagnose or treat atopic conditions, e.g., asthma

XX Claim 12: Page 24: 49pp: English.

XX This sequence represents a cryptic peptide of the major cat allergen
XX Fel d1. This sequence can be used in the method of the invention. The
XX method of the invention is for determining if a peptide of a protein is a
XX cryptic peptide, and comprises: (a) exposing T cells to the peptide in a
XX primary challenge, and measuring the reactivity of the T cells to the
XX peptide; (b) exposing pre-challenged T cells, activated by exposure to the
XX protein, to the peptide in a secondary challenge, and measuring the
XX reactivity of the pre-challenged T cells to the peptide; and
XX (c) determining the peptide to be a cryptic peptide if T cell reactivity
XX is observed in the secondary, but not in the primary challenge. Peptides
XX identified as being cryptic can be used to diagnose or treat an allergic
XX allergy, e.g., asthma. They can also be used in to screen compounds for
XX therapeutic activity, e.g., asthma therapeutic activity.

XX
XX Sequence: 14 AA

Query Match: 64.4% Score 75; 100% Identical
Best Local Similarity: 100.0% (Prod. No. 7.7a.01)
Matches: 14; Mismatches: 0; Indels: 0; Gaps: 0

2 4 FLLLEHYWVAE 17
3 F L L L E H Y W V A E 17
4 F L L L E H Y W V A E 17

RESULT 4
AAW4067
10 AAW4067 standard: peptide: 14 AA.
XX
XX AAW4067:
XX
XX

09 APR 1998 (first entry)

XX
XX Cryptic peptide of major cat allergen fel d1.

XX
XX Major cat allergen: fel d1: chain 1: cryptic peptide: 14 aa; sequence:
XX
XX F L L L E H Y W V A E 17

XX
XX F L L L E H Y W V A E 17
XX
XX W 97.97% A1.

XX
XX 2 MAR 1997 CW 100.0%

XX
XX 24 APR 1997 W 97.97% A1.
XX
XX 21 MAR 1997 W 97.97% A1.

XX
XX (CNC) IMPERIAL COLLEGE SCI TECHNOLOGY & MED.

XX
XX Key AB: Carthe M.

XX
XX W01: 1997-48-074/44.

XX
XX Determining if peptide of protein is cryptic peptide - by comparing
XX
XX its reactivity with pre-challenged and non-pre-challenged T cells.
XX
XX used to diagnose or treat atopic conditions, e.g. asthma.

XX
XX Claim 1: 1-17: 4ppa British.

XX
XX This sequence represents a cryptic peptide of the major cat allergen
XX
XX fel d1. This sequence can be used in the method of the invention. The
XX
XX method of the invention is for determining if a peptide of a protein is a
XX
XX cryptic peptide, and comprises: (a) exposing T-cells to the peptide in a
XX
XX primary challenge, and measuring the reactivity of the T-cells to the
XX
XX peptide; (b) exposing pre-challenged T-cells, obtained by exposure to the
XX
XX protein to the peptide in a secondary challenge, and measuring the
XX
XX reactivity of the pre-challenged T-cells to the peptide; and
XX
XX (c) determining the peptide to be a cryptic peptide if T-cell reactivity
XX
XX is observed in the secondary, but not in the primary challenge. Peptides
XX
XX thus found as being cryptic can be used to diagnose or treat an atopic
XX
XX allergy, e.g. asthma. They can also be used to screen compounds for
XX
XX therapeutic activity, e.g. asthma therapeutically active.

XX
XX Sequence: 14 AA

Query Match: 64.4% Score 75; 100% Identical
Best Local Similarity: 100.0% (Prod. No. 7.7a.01)
Matches: 14; Mismatches: 0; Indels: 0; Gaps: 0

2 4 FLLLEHYWVAE 17
3 F L L L E H Y W V A E 17
4 F L L L E H Y W V A E 17

RESULT 4
AAW4067
10 AAW4067 standard: peptide: 14 AA.
XX
XX AAW4067:
XX
XX

09 APR 1998 (first entry)

XX
XX Cryptic peptide of major cat allergen fel d1.

XX
XX Major cat allergen: fel d1: chain 1: cryptic peptide: 14 aa; sequence:
XX
XX F L L L E H Y W V A E 17

XX
XX F L L L E H Y W V A E 17
XX
XX W 97.97% A1.

XX
XX 2 MAR 1997 CW 100.0%

XX
XX 24 APR 1997 W 97.97% A1.
XX
XX 21 MAR 1997 W 97.97% A1.

XX
XX (CNC) IMPERIAL COLLEGE SCI TECHNOLOGY & MED.

XX
XX Key AB: Carthe M.

XX
XX W01: 1997-48-074/44.

XX
XX Determining if peptide of protein is cryptic peptide - by comparing
XX
XX its reactivity with pre-challenged and non-pre-challenged T cells.
XX
XX used to diagnose or treat atopic conditions, e.g. asthma.

XX
XX Claim 1: 1-17: 4ppa British.

XX
XX This sequence represents a cryptic peptide of the major cat allergen
XX
XX fel d1. This sequence can be used in the method of the invention. The
XX
XX method of the invention is for determining if a peptide of a protein is a
XX
XX cryptic peptide, and comprises: (a) exposing T-cells to the peptide in a
XX
XX primary challenge, and measuring the reactivity of the T-cells to the
XX
XX peptide; (b) exposing pre-challenged T-cells, obtained by exposure to the
XX
XX protein to the peptide in a secondary challenge, and measuring the
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XX
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XX Claim 1: 1-17: 4ppa British.

